



Port
Hedland
Industries
Council

Community Industry Forum

10 August 2022

Agenda

1. Welcome to Country
2. Apologies
3. Confirmation of Minutes
4. Action Items / Governance / Questions on Notice
5. Guest Introductions
6. Guest Presentations:
 - Port Hedland International Airport Update: Dave Batic, Chief Executive Officer
 - Spoilbank Marina Update: John Freimanis, Pilbara Ports Authority Project Manager
 - Wind Fence Construction Update: Johan Diedericks, BHP Project Delivery Lead
7. PHIC Update: Kirsty Danby, Chief Executive Officer
 - Pilbara Producers Forum
 - Port Hedland Air Monitoring
 - Next Gen education (SWASP and Train the Trainer)
 - LiDAR in Port Hedland
7. Other Items
8. Meeting Actions

Introductions

PHIC acts collaboratively for the benefit of industry and the Port Hedland Community to ensure the long-term sustainable growth of the Port and the community.

PHIC Members



Guests

John Freimanis, Spoilbank Marina Project Manager, Pilbara Ports Authority

Johan Diedericks, Project Delivery Lead, BHP



Dave Batic
Chief Executive Officer

John Freimanis
Project Manager

BHP

Johan Diedericks
Project Delivery Lead

Port Hedland International Airport



Dave Batic

Chief Executive Officer

Port Hedland Spoilbank Marina Update



John Freimanis

Project Manager

BHP Wind Fence Construction

BHP

Johan Diedericks

Project Delivery Lead – Wind
Fences Project

PHIC Update



**PORT HEDLAND
INDUSTRIES COUNCIL**

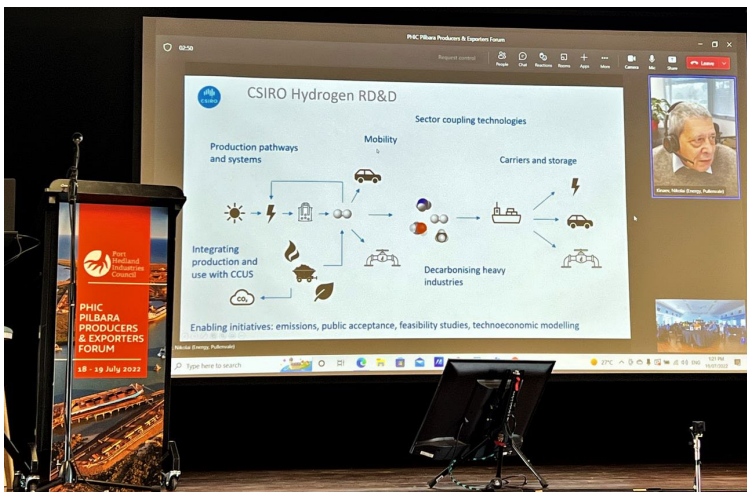
Kirsty Danby

Chief Executive Officer

Topic 1: Pilbara Producers Forum



Pilbara Producers Forum



Pilbara Producers Forum



Topic 2: LiDAR

PHIC is always looking to improve ways to monitor air quality across Port Hedland. One technology that PHIC has investigated is LiDAR.

Discussion:

1. What is LiDAR used for and how does it work?
2. What did PHIC want LiDAR to measure?
3. How did PHIC assess whether it is a useful tool for Port Hedland?
4. What LiDAR trials have been undertaken in Port Hedland?
 1. CRC Care (2011)
 2. PHIC LiDAR trial (2014-2016)
 3. DWER (2017)
5. Is there a report that summarises the LiDAR trials?
 1. Port Hedland Industries Council (2020) – avail on www.phic-hedland.com.au

LiDAR and Port Hedland

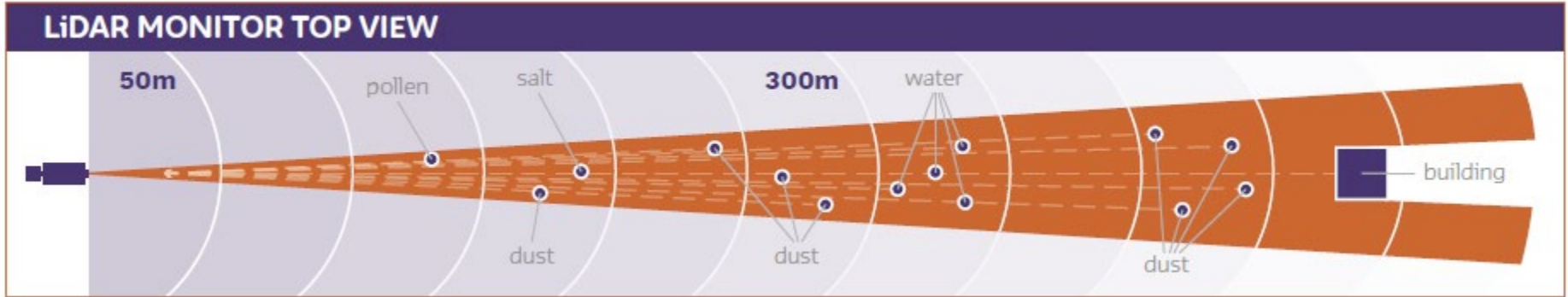
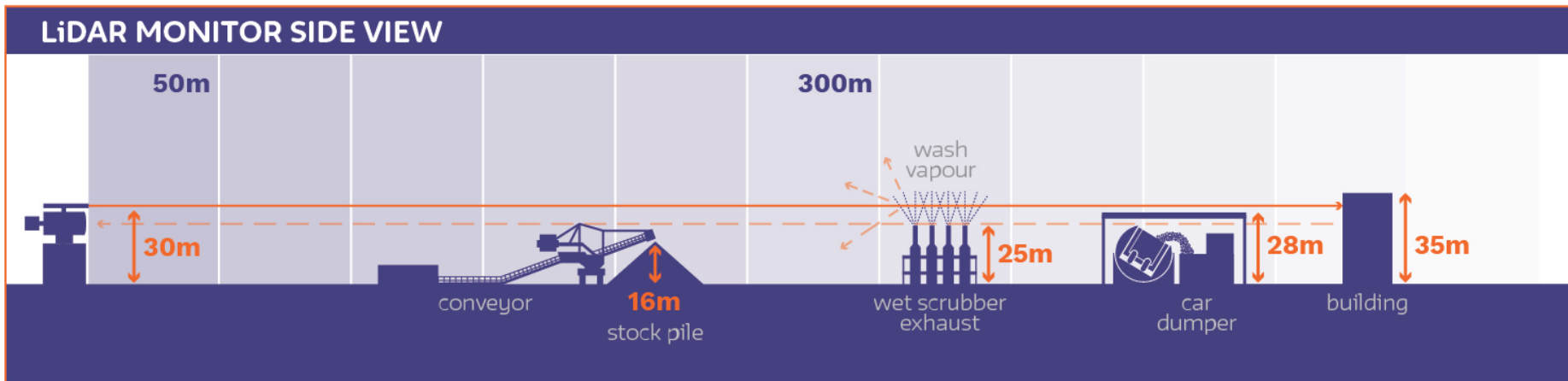


FIGURE 1 - LiDAR measures all particulate matter in the atmosphere including, dust, pollen, salt, water vapour and other suspended particles. The measurement doesn't differentiate between types of particulate matter, it provides relative concentration bands of matter. This can lead to data misinterpretation.

FIGURE 2 LiDAR only operates at the level it has been set. The return signal only monitors either elevated sources or plumes that have reached the scan height



LiDAR limitations and findings

PHIC supports DWER's position around LiDAR limitations and that LiDAR is not suitable for regulatory purposes (outlined in DWER factsheet).

1. There is no Australian Standard for the operation of LiDAR
2. LiDAR is not acceptable technology or methodology for point source monitoring
3. Pre-processing of LiDAR monitoring is required before usable imagery can be developed so it won't show real time monitoring scenarios
4. LiDAR can't be used to measure PM10 in isolation
5. The visual representation of LiDAR is only two-dimensional representation of three-dimensional movement in particles in the atmosphere
6. LiDAR cannot distinguish between dust, smoke, water, bushfires, buildings or trees. This means that "red" indicators may be interpreted as dust when it could be a range of other factors (buildings, water, trees etc)
7. The reliability of data is best at close proximity, not in general atmosphere (Port Hedland Airshed) and the instrument reduces reliability at distance
8. Calibrating LiDAR against AS technology such as BAMs to confirm correlations is technical challenging and potentially unreliable

LiDAR – more information

References:

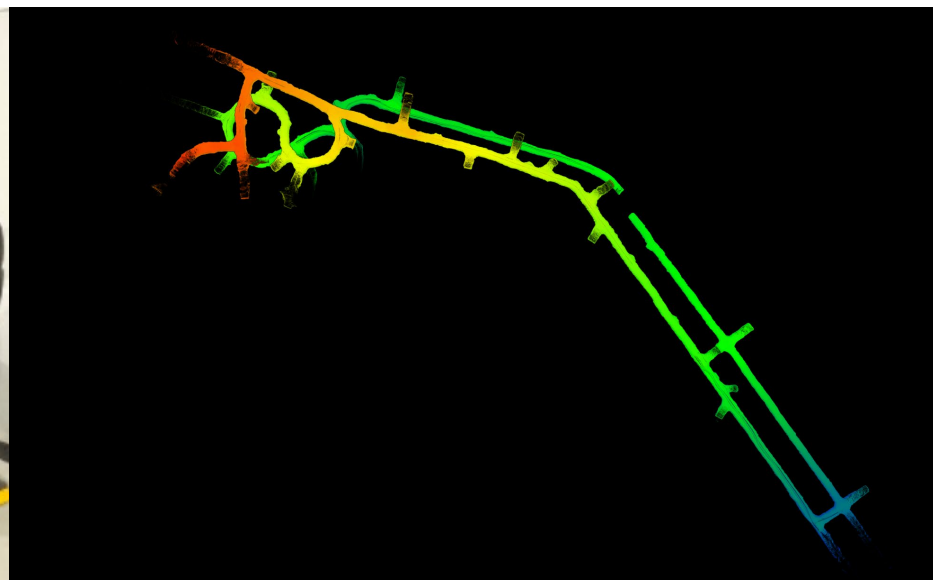
<https://www.der.wa.gov.au/images/documents/our-work/community-updates/port-hedland/DWER DOH Fact Sheet - Port Hedland air quality.pdf>

<https://www.phic-hedland.com.au/index.php/2020/09/01/lidar-fact-sheet/>

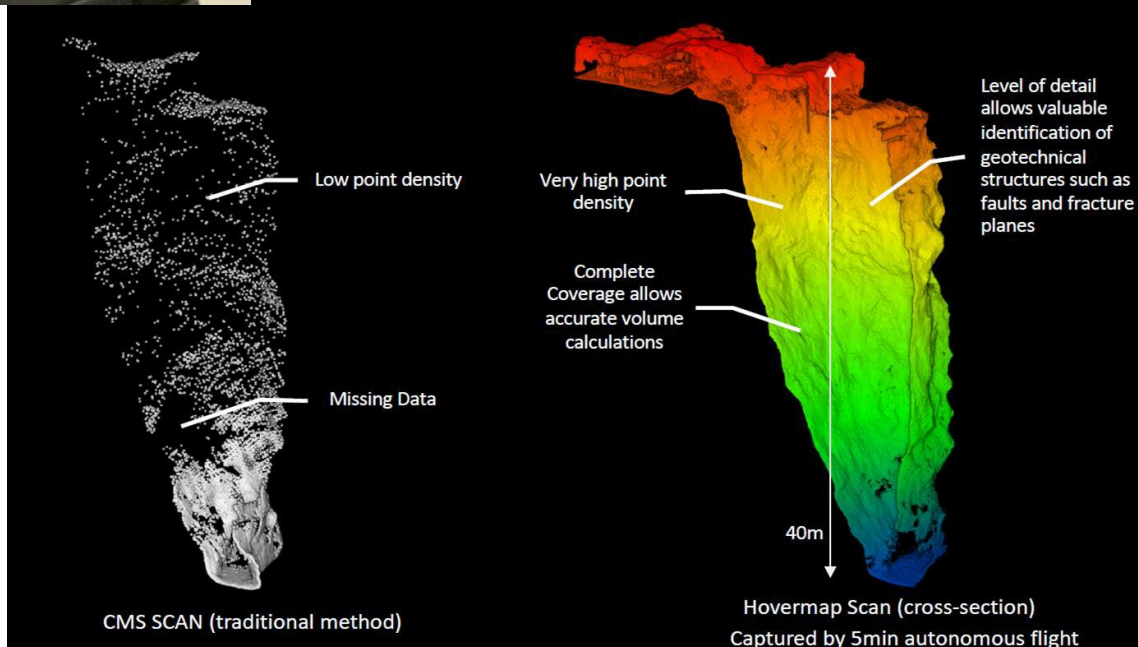
<https://www.phic-hedland.com.au/wp-content/uploads/2020/09/PHIC LiDAR Report.pdf>

<https://www.phic-hedland.com.au/index.php/news-and-resources/fact-sheets/>

LiDAR – other uses in mining



1. Geospatial activities
2. Laser surveying – drones, underground and remote machines – loaders, trucks
3. Mapping geology and 3D terrains
4. Production volumes



Topic 3: A change in Government



A change in Ministers



A change in commitments

- New carbon emission commitments Federal and State Governments
- Federal Government has now committed to a carbon emissions reduction target of 43 per cent below 2005 levels by 2030, and net zero emissions by 2050
- WA Government set a target to cut emissions from State assets by 80 percent by 2030



A change in expectation

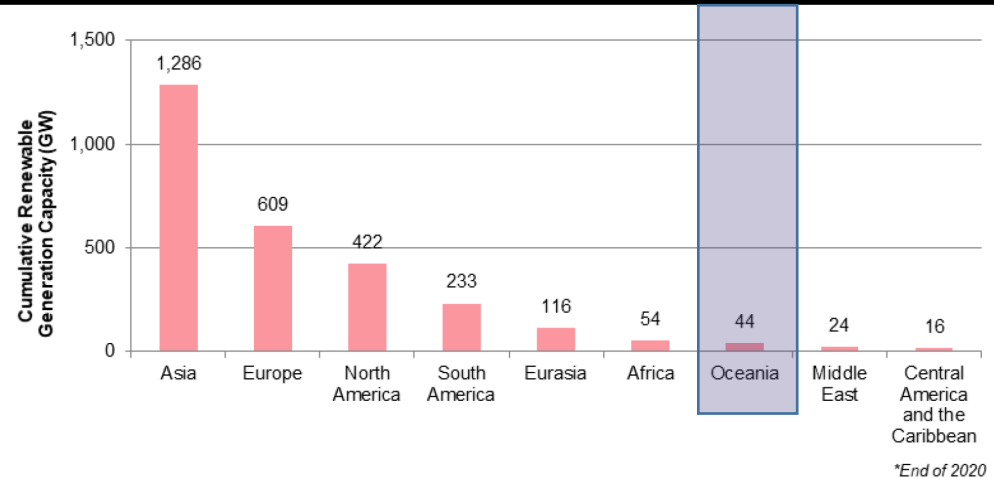
- Rise of the Teals
- New Member for Curtin Kate Chaney
- Federal Government will be managing expectations while also dealing with a larger cross bench for its legislative agenda



A change in energy

- The push for renewables is growing - 170 countries pledged to harness their renewable energy potential through Paris Agreement 2015
- 2020 - Australia's total installed renewable energy capacity was approximately 35.7 GW
- Australia globally behind on renewable adoption

EXHIBIT 1: Cumulative Renewable Energy Generation Capacity, By Region, 2020*



Source: IRENA

Topic 4: Port Hedland Air Monitoring

1. Bimonthly report from Katestone for May and June 2022.
2. There were no days above the 24-hour period for PM10 of $70 \mu\text{g}/\text{m}^3$ at the Taplin monitoring station.



Topic 5: PHIC SWASP Presentation



Coming up

1. Train the Trainer – 10 October
2. PHIC Greater Port Hedland Vertebrate pest management – end August
3. SWASP deployment
4. PHIC Associate Membership
5. Humans of Hedland
6. Positive Port Hedland
7. Local advertising



Port Hedland Industries Council

THEY'RE THE
Humans
OF HEDLAND

They're a mixture of long-term residents, of those born and bred in town, and new arrivals. They've shared their stories of how they arrived and their first impressions. Others have talked about growing up as kids and the fun they had.

We've heard about starting something new and of business success. Some have found love. But the common theme through every story is of a welcoming and supportive community.

Port Hedland – we're better together

Read their stories phic-hedland.com.au

Members

BHP **FMG** Fortescue **IOG** **IOG** **IOG**

PILBARA PORTS AUTHORITY **ConsMin**

MINERAL RESOURCES **Pilbara Minerals** **Sandfire**

Questions



Other Business



FUTURE AGENDA ITEMS

The **Community Industry Forum** is our opportunity to work with you and understand your aspirations as we move to create a sustainable future for Port Hedland.

Ongoing growth of the Port will generate jobs and enable economic diversity through new local business opportunities.

By implementing the right plan for Port Hedland, we can ensure a vibrant vision for the Port Hedland and a thriving community.

Future meeting schedule

Quarterly meeting upcoming dates

Wednesday TBA November
2022

Wednesday 8 February 2023

